

AI Planning

Exercise Sheet 5

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Exercise 5.1

foo

Exercise 5.2

- (a) $\Pi^+ = \langle A, I, O, \gamma \rangle$ with A, I, γ unchanged and
- $$\begin{aligned} O &= \{eatCake^+, bakeCake^+\} \\ eatCake^+ &= \langle haveCake, \top \wedge haveNoCake \wedge eatenCake \rangle \\ bakeCake^+ &= \langle haveNoCake, haveCake \wedge \top \rangle \end{aligned}$$

- (b) $\pi = bakeCake, eatCake$
 π in Π results in $\{haveCake \mapsto 0, eatenCake \mapsto 1, haveNoCake \mapsto 1\}$
 π^+ in Π^+ results in $\{haveCake \mapsto 1, eatenCake \mapsto 1, haveNoCake \mapsto 1\}$